

AMENDMENTS TO THE CLAIMS

1- 68. (canceled)

69. (New) A system for discerning an audible command from ambient noise in a vehicular cabin, the system comprising:

a microphone array moveably mounted within the vehicular cabin, the microphone array including a position sensor, the position sensor for determining a position of the microphone array within the vehicular cabin, and

a signal processing system coupled to the microphone array and to the position sensor.

70. (New) The system of claim 69, wherein the position sensor comprises a potentiometer.

a 71. (New) The system of claim 69, wherein the microphone array is two-dimensional.

72. (New) The system of claim 69, wherein the microphone array is three-dimensional.

73. (New) The system of claim 69, wherein the microphone array is pivotably mounted in the vehicular cabin.

74. (New) The system of claim 69, wherein the vehicular cabin includes a rearview mirror, and the microphone array is located within the mirror.

75. (New) The system of claim 69, wherein the vehicular cabin includes a headliner, and the microphone array is located within the headliner.

76. (New) The system of claim 69, wherein the vehicular cabin includes a overhead console, and the microphone array is located within the overhead console.

77. (New) The system of claim 69, wherein the vehicular cabin includes an interior surface, and the microphone array is located within the interior surface.

78. (New) The system of claim 69, wherein the vehicular cabin includes a dashboard, and the microphone array is located within the dashboard.

79. (New) The system of claim 69, wherein the vehicular cabin includes a visor, and the microphone array is located within the visor.

80. (New) The system of claim 69, wherein the vehicular cabin includes a pillar, and the microphone array is located within the pillar.

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81. (New) The system of claim 69, wherein the vehicular cabin includes a headrest, and the microphone array is located within the headrest.

82. (New) The system of claim 69, wherein the vehicular cabin includes a steering wheel, and the microphone array is located within the steering wheel.

83. (New) The system of claim 69, wherein the vehicular cabin includes a compartment door, and the microphone array is located within the compartment door.

84. (New) The system of claim 69, wherein the signal processing system is analog.

85. (New) The system of claim 84, wherein the signal processing system performs a delay and sum processing function.

86. (New) The system of claim 84, wherein the signal processing system performs a filter and sum processing function.

87. (New) The system of claim 69, wherein the signal processing system is digital.

88. (New) The system of claim 87, wherein the signal processing system performs Griffiths Jim processing.

89. (New) The system of claim 87, wherein the signal processing system performs Frost processing.

90. (New) The system of claim 87, wherein the signal processing system performs adaptive signal processing.

a 91. (New) The system of claim 87, wherein the signal processing system performs adaptive beamforming.

92. (New) The system of claim 91, wherein the signal processing system performs adaptive noise reduction.

93. (New) The system of claim 69, wherein the signal processing system is acoustic.

94. (New) The system of claim 93, wherein the signal processing system includes a delay line.

95. (New) The system of claim 69, including a plurality of microphone arrays, the plurality of microphone arrays mounted with the vehicular cabin and coupled to the signal processing system.

96. (New) The system of claim 69, wherein the signal processing system includes multiple output channels.

97. (New) The system of claim 69, wherein the microphone array is directional.

98. (New) The system of claim 97, wherein the direction of the directional microphone array is adjustable.

99. (New) The system of claim 97, wherein the direction of the directional microphone array is electronically adjustable.

100. (New) The system of claim 97, wherein the direction of the directional microphone array is mechanically adjustable.

a 101. (New) The system of claim 69 wherein a microphone of the microphone array is a silicon microphone.

102. (New) The system of claim 69, wherein the microphone array is selectively directional between two potential audible command sources.

103. The system of claim 69, wherein the signal processor is operable to detect a failure of one microphone of the microphone array.

104. The system of claim 103, wherein the signal processor is operable to compensate for the failure of one microphone of the microphone array.

105. (New) A system for discerning an audible command from ambient noise in a vehicular cabin, the system comprising:

a microphone array mounted within the vehicular cabin, a microphone of the microphone array being a silicon microphone; and

a signal processing system coupled to the microphone array.

106. (New) The system of claim 105 comprising a plurality of microphone arrays.

107. (New) The system of claim 105, wherein the microphone array is pivotably mounted in the vehicular cabin.

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108. (New) The system of claim 105, wherein the vehicular cabin includes a rearview mirror, and the microphone array is located within the mirror.

109. (New) The system of claim 105, wherein the signal processing system is digital.

110. (New) The system of claim 109, wherein the digital signal processing system performs Griffiths Jim processing.

111. (New) The system of claim 109, wherein the digital signal processing system performs Frost processing.

112. (New) The system of claim 109, wherein the digital signal processing system performs adaptive signal processing.

113. (New) The system of claim 109, wherein the digital signal processing system performs adaptive beamforming.

114. (New) The system of claim 113, wherein the digital signal processing system performs adaptive noise reduction.

115. (New) The system of claim 105, wherein the signal processing system is acoustic.

116. (New) The system of claim 105, wherein the signal processing system includes multiple output channels.

a 117. (New) The system of claim 105, wherein the microphone array is directional.

118. (New) The system of claim 117, wherein the direction of the directional microphone array is adjustable.

119. (New) The system of claim 117, wherein the direction of the directional microphone array is electronically adjustable.

120. (New) The system of claim 105, wherein the microphone array is selectively directional between two potential audible command sources.

121. (New) A system for discerning an audible command of each of two speakers from ambient noise in a vehicular cabin, the system comprising:

a microphone array having an output; and

a signal processing system coupled to the output of the array for forming two microphone beams, one associated with each of the speakers.

122. (New) The system of claim 121, wherein the signal processing system has two outputs, one associated with each of the formed beams.

123. (New) The system of claim 121, wherein the signal processing system locates each of the speakers.

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124. (New) The system of claim 123, wherein the signal processing system defines an acceptance area about each of the located speakers.

125. (New) The system of claim 124, wherein the signal processing system adjusts each of the acceptance areas.

126. (New) The system of claim 121, includes a selection between each of the beams.

127. (New) The system of claim 121, being responsive to the audible command for controlling a vehicular function.
